

Claims

1. A natural language processing apparatus comprising
input means for inputting natural language;
converting means for converting the natural language inputted by the input
means;
confirmation means for confirming the natural language converted by the
converting means;
processing means for implementing processing to the natural language
confirmed by the confirmation means; and
output means for outputting the natural language processed by the processing
means.
2. A natural language processing apparatus as set forth in claim 1,
wherein the converting means for converting a representation into at least
another representation within the same language.
3. A natural language processing apparatus as set forth in claim 1,
wherein accuracy of processing at the processing means is guaranteed.
4. A natural language processing apparatus as set forth in claim 2,
wherein the processing means carries out processing by template.
5. A natural language processing apparatus as set forth in claim 1,
wherein first language is inputted to the input means, the processing means
translates the first language into second language, and the output means outputs the

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second language translated by the processing means.

6. A natural language processing apparatus as set forth in claim 5,
wherein the converting means converts the first language inputted by the input means into another representation of the first language.
7. A natural language processing apparatus as set forth in claim 5,
wherein the converting means converts the first language inputted by the input means into third language.
8. A natural language processing apparatus as set forth in claim 1,
wherein the converting means converts plural representations into single representation with respect to representation of natural language inputted by the input means.
9. A natural language processing apparatus as set forth in claim 1,
wherein the converting means converts polysemous representation into plural univocal representations with respect to representation of natural language inputted by the input means.
10. A natural language processing apparatus as set forth in claim 1,
wherein the converting means carries out conversion by at least one of merger (integration), division, deletion, replacement and exchange of order with respect to representation of natural language inputted by the input means.
11. A natural language processing apparatus as set forth in claim 1,
wherein the input means inputs natural language by voice.

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12. A natural language processing apparatus as set forth in claim 11,
wherein the confirmation means confirms, only once, natural language inputted
by voice to the input means.
13. A natural language processing apparatus as set forth in claim 1,
wherein the input means inputs natural language by character.
14. A natural language processing apparatus as set forth in claim 13,
wherein the confirmation means confirms, only once, natural language inputted
by character at the input means.
15. A natural language processing apparatus as set forth in claim 1,
wherein first language is inputted to the input means, the converting means
converts first language inputted to the input means into second representation of
second language and converts it into first representation of the first language having
one-to-one correspondence with respect to the second representation, and the
confirmation means carries out confirmation by using the first representation.
16. A natural language processing apparatus as set forth in claim 15,
wherein the processing means translates the first language into the second
language on the basis of conversion at the converting means and confirmation at the
confirmation means, and the output means outputs the second language translated by
the processing means.
17. A natural language processing apparatus comprising
input means for inputting natural language;

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one or two processing means or more for implementing processing to the natural language;

one or two confirmation means or more for confirming result of processing with respect to the natural language; and

output means for outputting the processed natural language,

wherein second processing means for converting natural language inputted to the inputting means into form which can process it with good accuracy and second confirmation means for confirming result of the second processing means are provided at the preceding stage of the first processing means to thereby carry out execution in advance of confirmation to omit confirmation of result of the first processing means.

18. A natural language processing apparatus as set forth in claim 17,

wherein processing by the first processing means is machine translation processing, kana-kanji conversion processing, information retrieval processing by natural language, or representation conversion processing by natural language.

19. A natural language processing apparatus as set forth in claim 17,

wherein processing by the second processing means is machine translation processing, kana-kanji conversion processing, information retrieval processing by natural language, or representation conversion processing by natural language.

20. A natural language processing apparatus as set forth in claim 17,

which includes, at the preceding stage of the second processing means, third processing means and third confirmation means for confirming result thereof, whereby

the third confirmation means is moved to the portion after the second processing means or processing means of the stage succeeding thereto, or the third confirmation means is merged or integrated into the second confirmation means or confirmation means of the stage succeeding thereto to thereby carry out postponement of confirmation.

21. A natural language processing apparatus as set forth in claim 20,
wherein means in which the second confirmation means and the third confirmation means are merged or integrated gives result of processing as numeric value to present the numeric value.
22. A natural language processing apparatus as set forth in claim 20,
wherein the first processing means carries out machine translation and the third processing means carries out voice recognition.
23. A natural language processing apparatus as set forth in claim 20, comprising
voice recognition processing means for carrying out voice recognition of natural language inputted to the input means, recognition result confirmation means for confirming recognition result at the voice recognition processing means, machine translation means for implementing machine translation to the result confirmed at the recognition result confirmation means, and translation result confirmation means for confirming translation result at the machine translation means,
wherein representation conversion processing means for converting

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representation and representation conversion confirming means for confirming result of the conversion thereof are supplemented at the preceding stage of the machine translation processing means to thereby carry out execution in advance of processing by the translation result confirmation means to omit the translation result confirming means of the stage succeeding to the machine translation processing means.

24. A natural language processing apparatus as set forth in claim 23,

wherein postponement of processing by the recognition result confirming means which merges or integrates the recognition result confirmation result with the representation conversion result confirming means existing at the stage succeeding thereto is carried out.

25. A natural language processing apparatus comprising

input means for inputting natural language;

converting means for converting first language inputted to the input means into representation having one-to-one correspondence with respect to representation of second language by representation by the second language and representation by third representation;

confirmation means for confirming representation of the third language converted at the converting means;

processing means for implementing processing to the natural language inputted at the input means in accordance with result of the confirmation at the confirmation means; and

output means for outputting natural language to which the processing has been implemented at the processing means.

26. A natural language processing apparatus as set forth in claim 25,

wherein, at the converting means, the second language is language to be translated, and representation by the third language is obtained by conversion of representation by the first language.

27. A natural language processing method comprising

an input step of inputting natural language;

a conversion step of converting the natural language inputted at the input step;

a confirmation step of confirming the natural language converted at the conversion step;

a processing step of implementing processing to the natural language confirmed at the confirmation step; and

an output step of outputting the natural language processed at the natural language processing step.

28. A natural language processing method as set forth in claim 27,

wherein, at the conversion step, a procedure is taken to carry out conversion into at least another representation within the same language.

29. A natural language processing method as set forth in claim 27,

wherein first language is inputted at the input step; at the conversion step, a procedure is taken to convert the first language inputted at the input step into second

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representation of second language, and to convert it into first representation of the first language having one-to-one correspondence with respect to the second representation, and at the confirmation step, a procedure is taken to carry out confirmation by using the first representation.

30. A natural language processing method as set forth in claim 29.

wherein, at the processing step, a procedure is taken to translate the first language into the second language on the basis of conversion at the conversion step and confirmation at the confirmation step; and at the output step, a procedure is taken to output the second language translated at the processing step.

31. A natural language processing method comprising

an input step of inputting natural language;

one, or two processing steps or more of implementing processing to the natural language;

one, or two confirmation steps or more of confirming result of processing with respect to the natural language; and

an output step of outputting the processed natural language;

wherein a second processing step of converting natural language inputted at the input step into form which can process it with high accuracy and a second confirmation step of confirming result of the second processing step are provided at the preceding stage of the first processing step to thereby carry out execution in advance of confirmation to omit confirmation of result of the first processing step.

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32. A natural language processing method as set forth in claim 31,

which includes, at the preceding stage of the second processing step, a third processing step and a third confirmation step of confirming result thereof,

wherein the third confirmation step is moved after the second processing step or processing step at the stage subsequent thereto, or is merged into the second confirmation step at the subsequent stage or confirmation step at the stage of subsequent thereto to thereby carry out postponement of confirmation.

33. A natural language processing method including

an input step of inputting natural language;

a conversion step of converting first language inputted at the input step into representation having one-to-one correspondence with respect to representation by second language by representation by second language and representation by third language;

a confirmation step of confirming representation of the third language converted at the conversion step;

a processing step of implementing processing to the natural language inputted at the input means in accordance with result of confirmation at the confirmation step; and

an output step of outputting natural language to which the processing has been implemented by the processing means.

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